

UCTE



March 2005

Monthly provisional values

union for the co-ordination of transmission of electricity

Table of contents¹**Page**

1	Electricity supply situation of the countries	2
2	Physical energy flows	3
3	Monthly consumption	4
4	Monthly consumption variation	6
5	Consumption of the last 12 months	8
6	Variation of the last 12 months' consumption	9
7	Load flows (night)	10
8	Load flows (day)	11
9	Unavailability of international tie lines (major events)	12
10	Network reliability (major events)	14
11	Scheduled exchanges	15
12	Load on the 3 rd Wednesday	16

¹ Monthly provisional values from the UCTE database as of 12 July 2005

All values are calculated to represent 100% of the national values

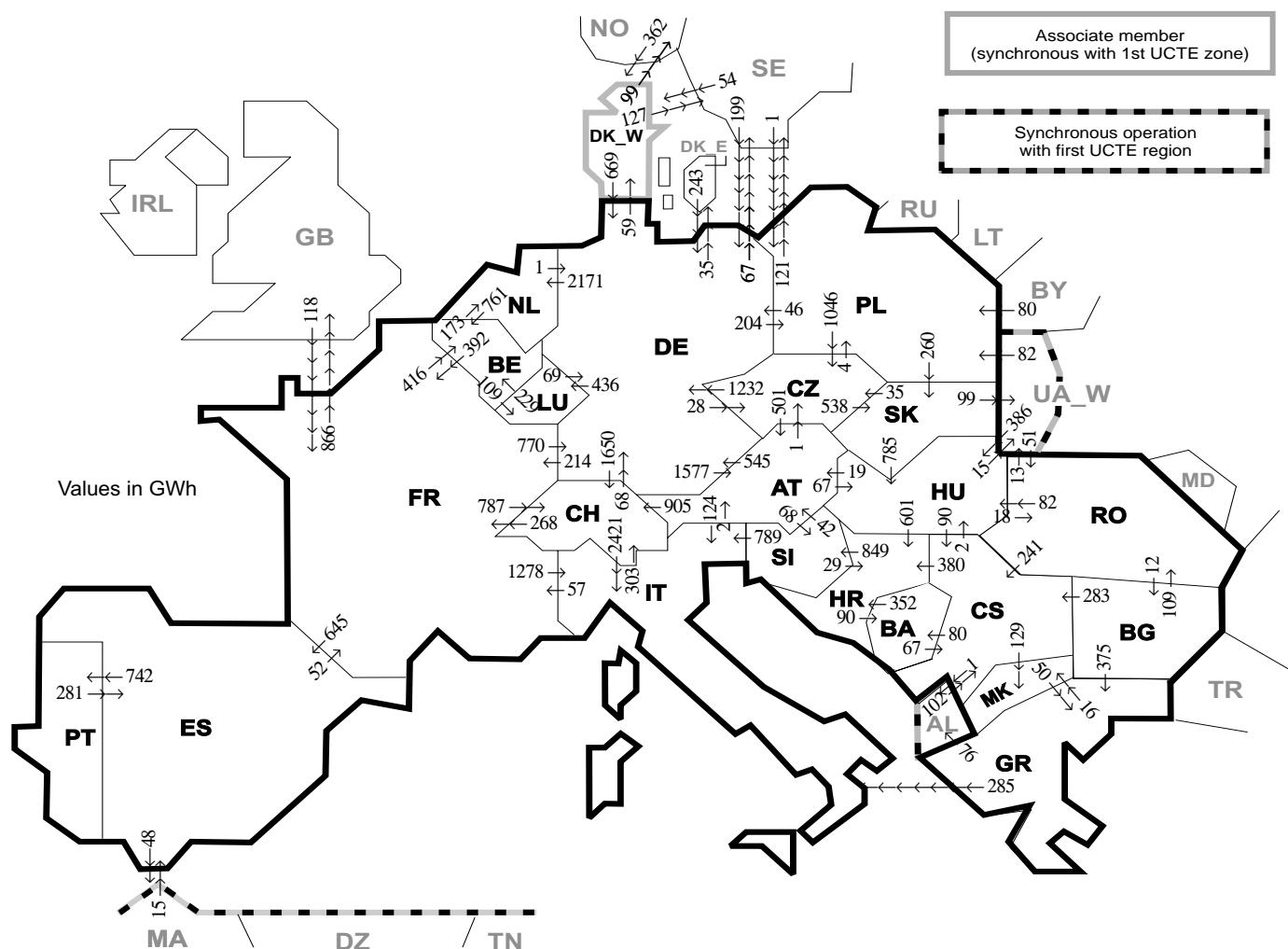
Coun- tries	Net production in GWh							Exchange balance in GWh	Pump in GWh monthly	Consumption in GWh			
	Therm. nuclear	Fossiel fuel	Hydro prod	Other renew.	Of which	Not iden- tify	Total			var. [%]	last 12 months	var. [%]	
AT	0	2507	2572	0	0	0	5079	381	242	5218	-14,8	64715	4,6
BA	0	592	670	0	0	0	1262	-274	0	988	4,9	10773	-10,5
BE	3857	3114	154	193	10	0	7318 ¹	741	142	7917	0,7	88496	1,8
BG	1804	1873	541	0	0	0	4218	-761	39	3418	4,6	35080	-1,8
CH	2292	183	2606	78	1	0	5159 ¹	598	145	5612	-0,9	62093	3,6
CS	0	2622	1361	0	0	0	3983 ¹	191	111	4063	3,1	41432	1,6
CZ	2235	4570	337	3	2	0	7145 ¹	-1163	69	5913	2,0	61895	2,8
DE	14735	32467	2016	3425	2758	0	52643 ¹	-2601	753	49289	-0,6	550592	1,2
ES	4380	11282	2115	2167	1845	0	19944 ¹	51	427	19568	-10,9	245938	1,6
FR	36780	7313	5119	340	57	0	49552	3828	616	52764	16,7	493146	4,3
GR	0	3369	802	78	68	0	4249 ¹	46	23	4272	2,9	51525	-2,8
HR	0	483	609	2	1	0	1094 ¹	407	4	1497	2,7	16065	2,7
HU	1008	1755	5	0	0	0	2768 ¹	579	0	3347	0,0	38141	-0,7
IT	0	20329	3319	556	144	0	24204	4535	879	27860	0,3	322389	0,1
LU	0	298	82	9	5	0	389	247	97	539	-7,4	6260	3,5
MK	0	472	187	0	0	0	659 ¹	97	0	756	11,2	7558	0,2
NL	337	7631	0	583	205	0	8551 ¹	1581	0	10077	2,3	111254	0,7
PL	0	12670	362	n.a.	n.a.	n.a.	13032 ¹	-1102	180	11750	0,5	129744	-4,6
PT	0	3112	477	277	140	0	3866 ¹	474	62	4278	3,1	48321	3,0
RO	487	2966	1560	0	0	0	5013 ¹	170	0	5183	14,8	51701	4,0
SI	494	428	166	0	0	0	1088	54	0	1142	-5,4	13206	0,7
SK	1282	533	471	1	1	261	2548 ¹	-121	8	2419	0,1	26164	-1,0
UCTE	69691	120569	25531	7712	5237	261	223764 ¹	7958	3797	227870	2,5	2476488	1,4
DK_W	0	1736	3	559	435	0	2298 ¹	-420	0	1878	-0,3	21069	n.a.
UA_W ²	0	735	11	0	0	0	746 ¹	-310	0	436	3,8	4428	6,6

¹ Including deliveries from industry

² UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

All representativities of the national production and consumption values used to calculate values at a representativity of 100% as stated in the table above

Countries	AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT	RO	SI	SK	DK_W	UA_W ²
Production																								
Therm.nuclear	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Fossil fuel	100	100	100	100	100	100	100	100	100	100	100	100	100	100	98	100	100	100	96	100	100	100	100	
Hydro prod	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	
Other renew.	n.a.	100	100	100	100	100	100	100	100	100	100	100	100	n.a.	100	100	100	n.a.	100	100	100	100	100	
Not identify	n.a.	100	100	100	100	100	100	100	100	100	100	100	100	n.a.	100	100	n.a.	100	100	100	100	100	100	
Consumption	90	100	100	100	100	100	100	100	100	98	100	100	100	100	99	100	100	100	97	100	95	100	100	



Exporting countries	Importing countries																				Sum export					
	AT	BA	BE	BG	CH	CS	CZ	DE	ES	FR	GR	HR	HU	IT	LU	MK	NL	PL	PT	RO	SI	SK	DK_W	UA_W ²	Other III ¹	
AT	-	-	-	-	905	-	1	545	-	-	-	-	67	124	-	-	-	-	-	68	-	-	-	-	1710	
BA	-	-	-	-	-	67	-	-	-	-	-	352	-	-	-	-	-	-	-	-	-	-	-	-	419	
BE	-	-	-	-	-	-	-	-	-	392	-	-	-	-	109	-	173	-	-	-	-	-	-	-	674	
BG	-	-	-	-	-	283	-	-	-	-	375	-	-	-	-	0	-	-	109	-	-	-	-	0	767	
CH	0	-	-	-	-	-	-	68	268	-	214	-	-	-	2421	-	-	-	-	-	-	-	-	-	2757	
CS	-	80	-	0	-	-	-	-	-	-	-	380	2	-	-	129	-	-	0	-	-	-	-	1	592	
CZ	501	-	-	-	-	-	-	1232	-	-	-	-	-	-	-	-	4	-	-	538	-	-	-	-	2275	
DE	1577	-	-	-	1650	-	28	-	-	214	-	-	-	-	436	-	2171	204	-	-	59	-	102	-	6441	
ES	-	-	-	-	-	-	-	-	-	-	52	-	-	-	-	-	-	742	-	-	-	-	48	-	842	
FR	-	-	416	-	787	-	-	770	645	-	-	-	-	-	1278	-	-	-	-	-	-	-	-	866	4762	
GR	-	-	-	0	-	-	-	-	-	-	-	-	-	-	285	-	16	-	-	-	-	-	-	76	377	
HR	-	90	-	-	-	0	-	-	-	-	-	-	-	0	-	-	-	-	-	849	-	-	-	-	939	
HU	19	-	-	-	-	90	-	-	-	-	-	-	-	601	-	-	-	-	18	0	0	15	-	-	743	
IT	2	-	-	-	303	-	-	-	-	57	0	-	-	-	-	-	-	-	0	-	-	-	-	362		
LU	-	229	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298		
MK	-	-	-	0	-	0	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50		
NL	-	761	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	762		
PL	-	-	-	-	-	-	1046	46	-	-	-	-	-	-	-	-	-	-	260	0	121	-	-	1473		
PT	-	-	-	-	-	-	-	281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	281		
RO	-	-	-	12	-	241	-	-	-	-	-	82	-	-	-	-	-	-	-	-	13	0	-	348		
SI	42	-	-	-	-	-	-	-	-	29	-	789	-	-	-	-	-	-	-	-	-	-	-	860		
SK	-	-	-	-	-	-	35	-	-	-	-	785	-	-	-	-	0	-	-	-	99	-	-	919		
DK_W	-	-	-	-	-	-	669	-	-	-	-	-	-	-	-	-	-	-	-	-	-	226	-	895		
UA_W ²	-	-	-	-	-	-	-	-	-	386	-	-	-	-	-	82	51	0	-	-	-	-	519	-		
Other III ¹	-	-	-	0	102	-	-	442	15	118	0	-	-	-	-	-	81	0	-	416	-	-	-	1174		
Sum imp	2141	170	1406	12	3645	783	1110	3842	941	1101	425	1362	1322	4897	545	145	2344	371	742	178	917	798	475	127	1440	31239

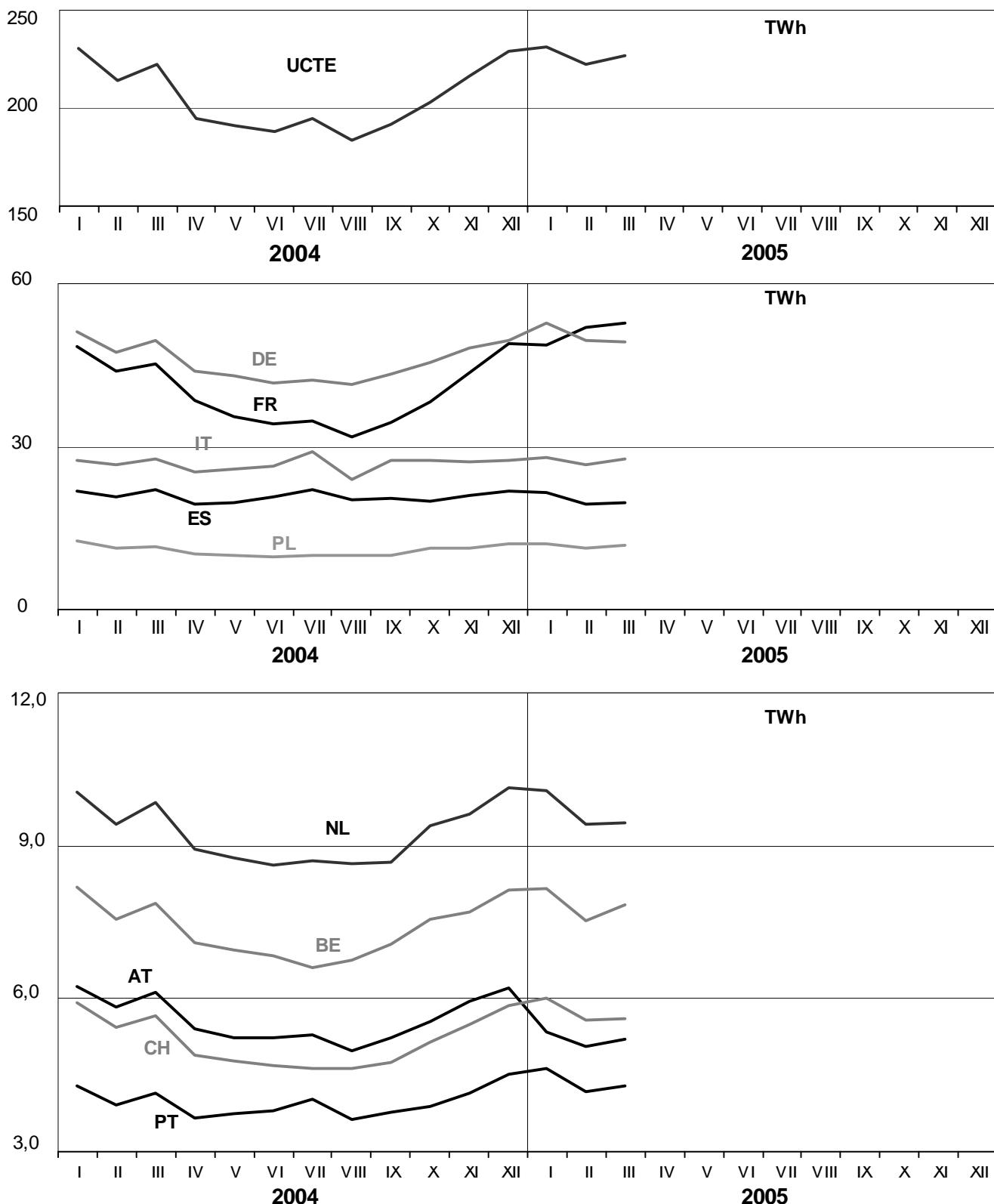
Sum of physical energy flows between UCTE countries = 27251GWh Total physical energy flows = 31239GWh

¹ Other III: Albania, Belarus, Denmark East, Great Britain, Morocco, Republic of Moldavia, Norway, Sweden and Republic of Turkey

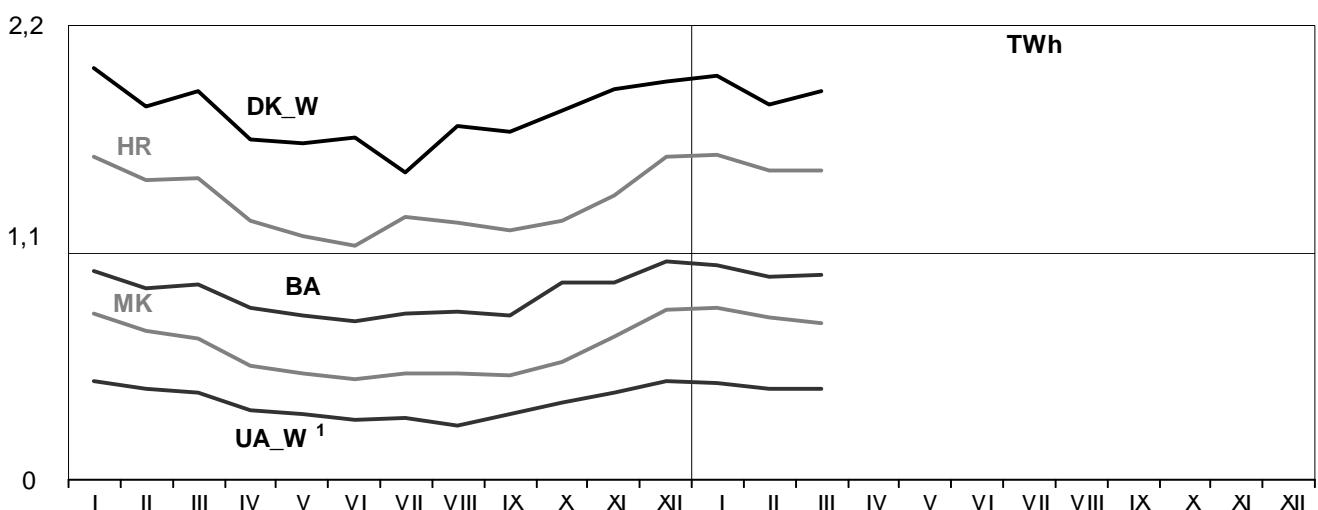
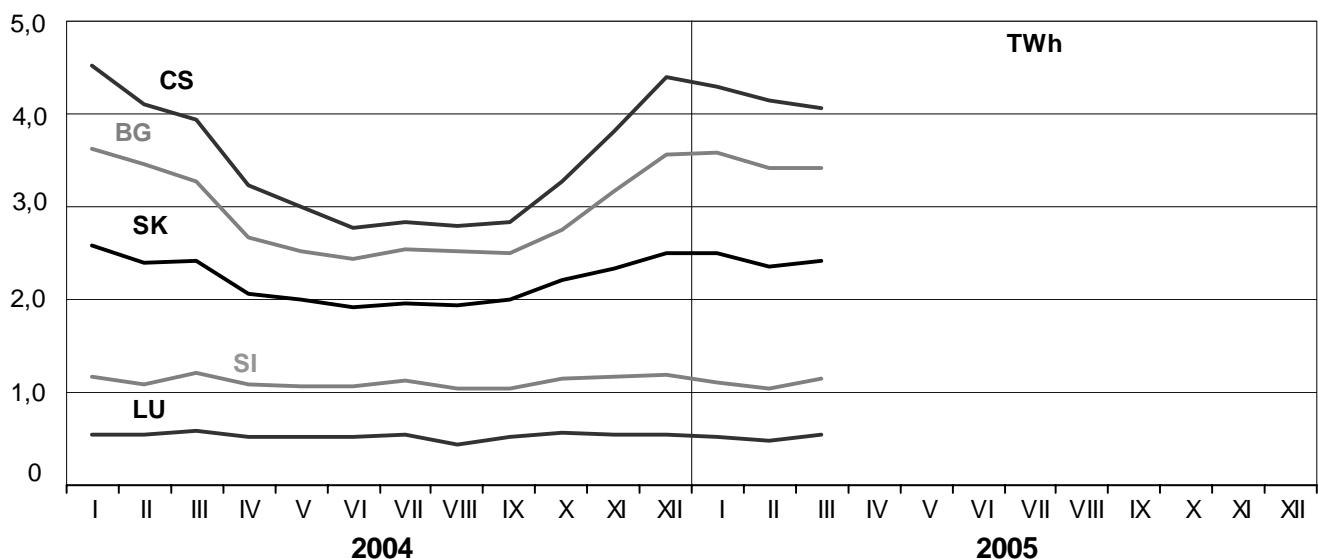
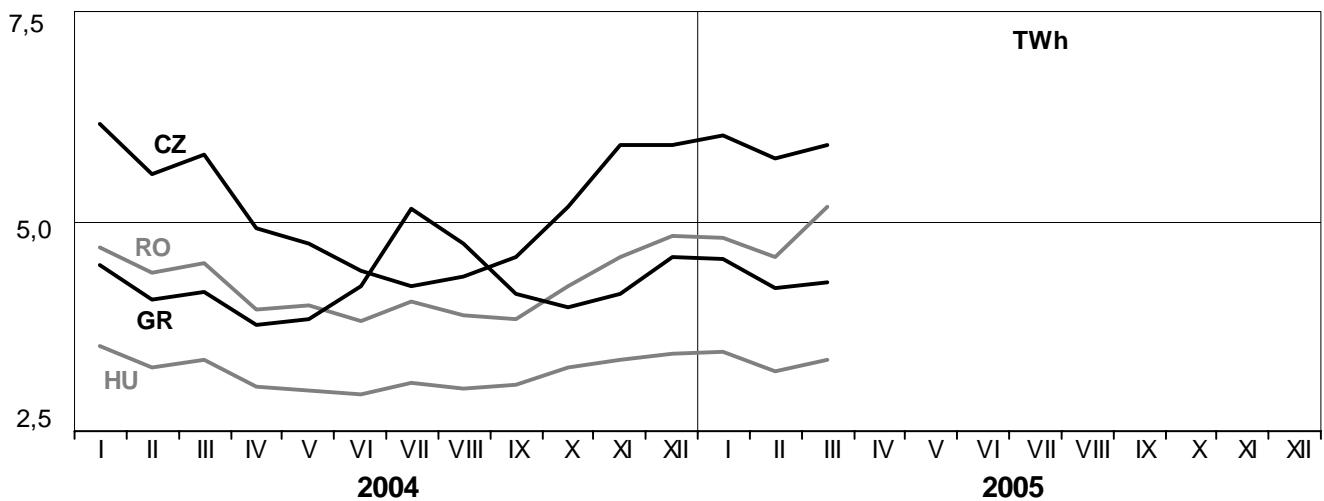
² UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

These physical energy flows were measured on the cross-frontier transmission lines (< 110 kV) listed in table 9 of the Statistical Yearbook. These values may differ from the official statistics and the exchange balances in chapter 1.

All values are calculated to represent 100% of the national values

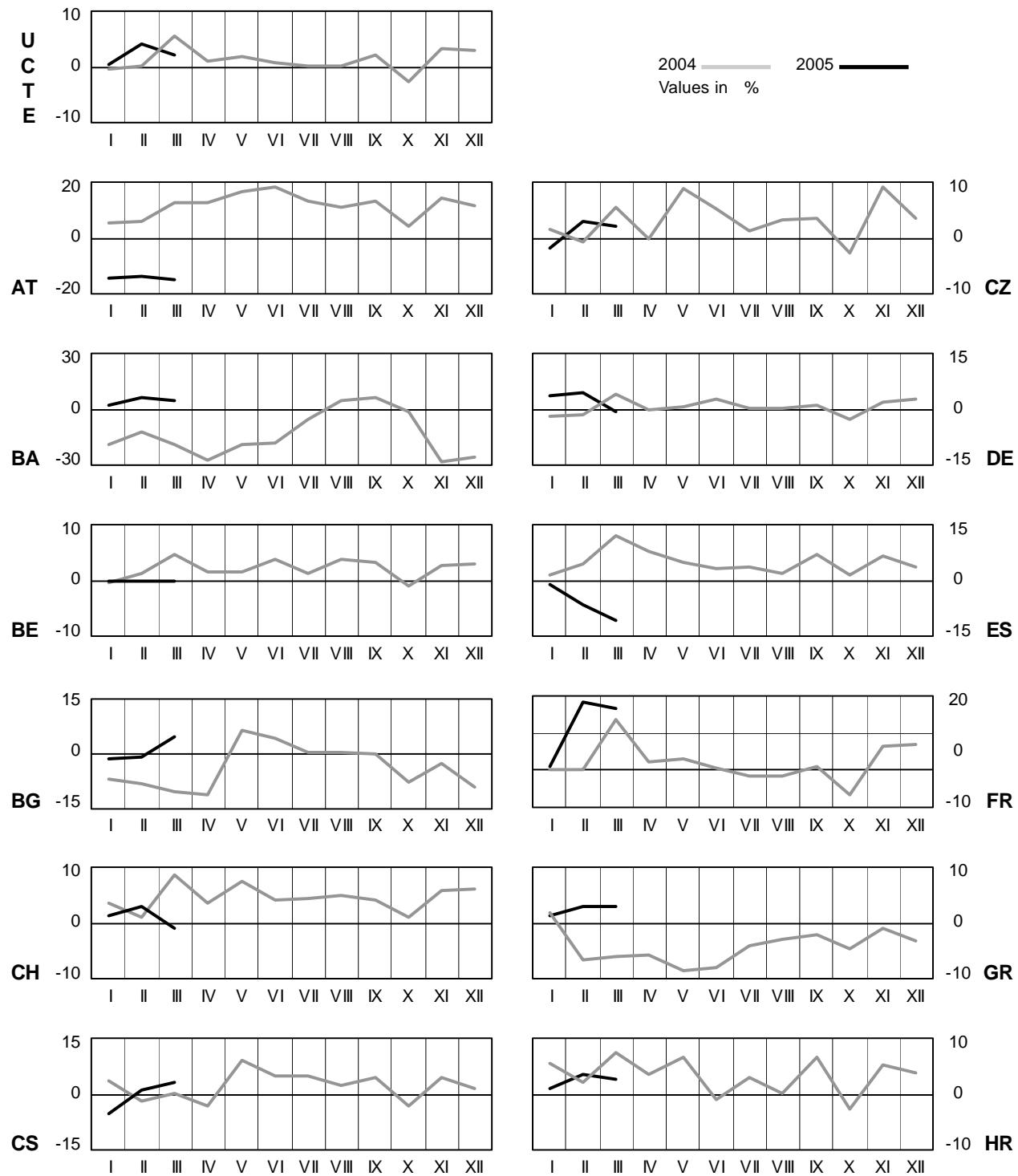


All values are calculated to represent 100% of the national values



¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

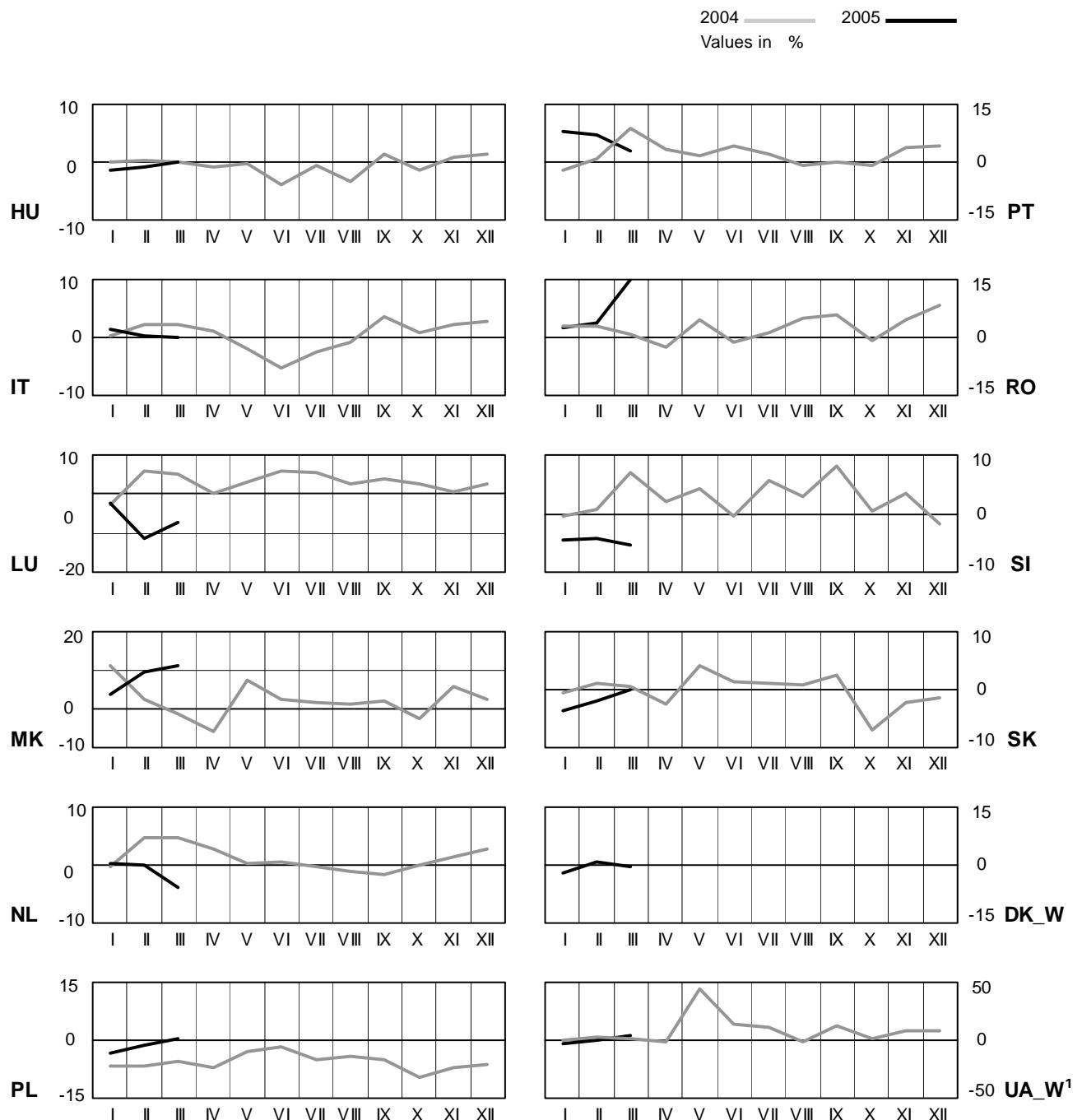
All values are calculated to represent 100% of the national values



4 Monthly consumption variation

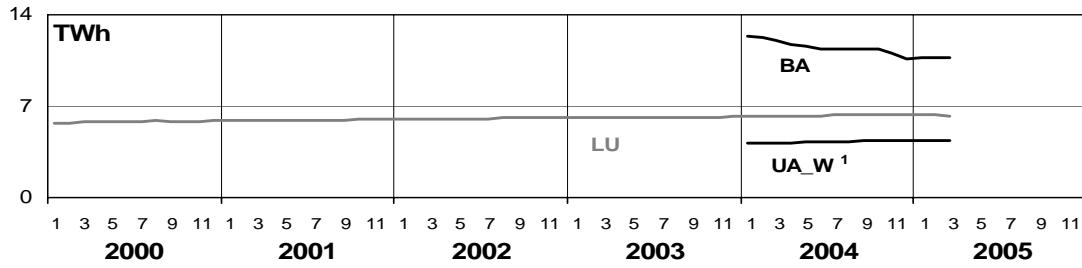
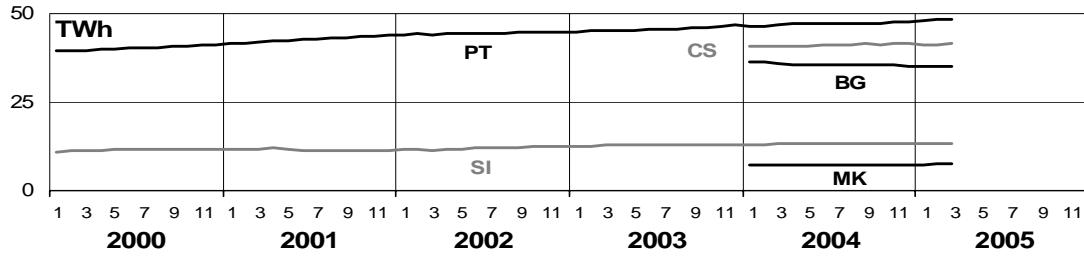
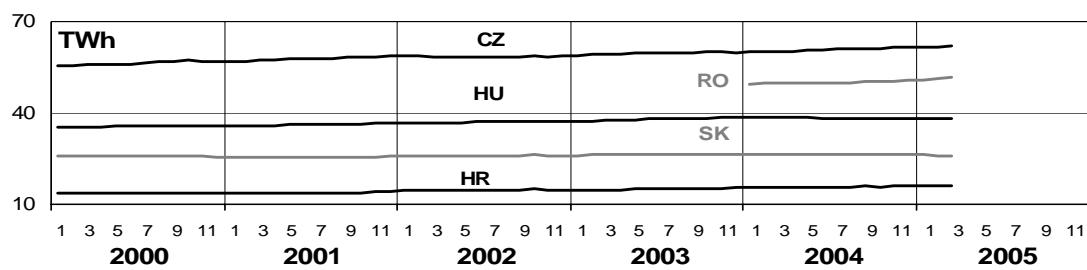
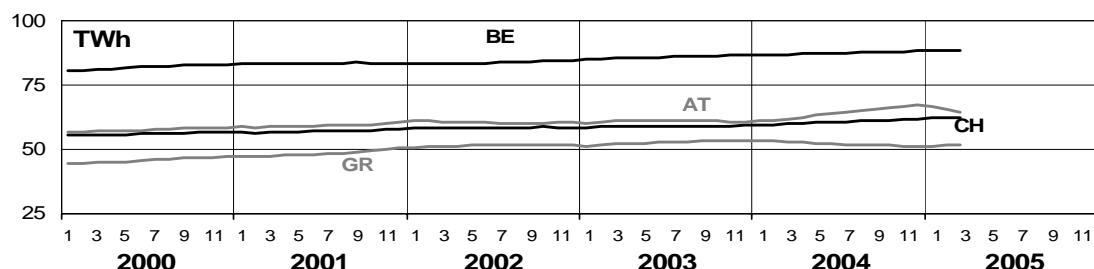
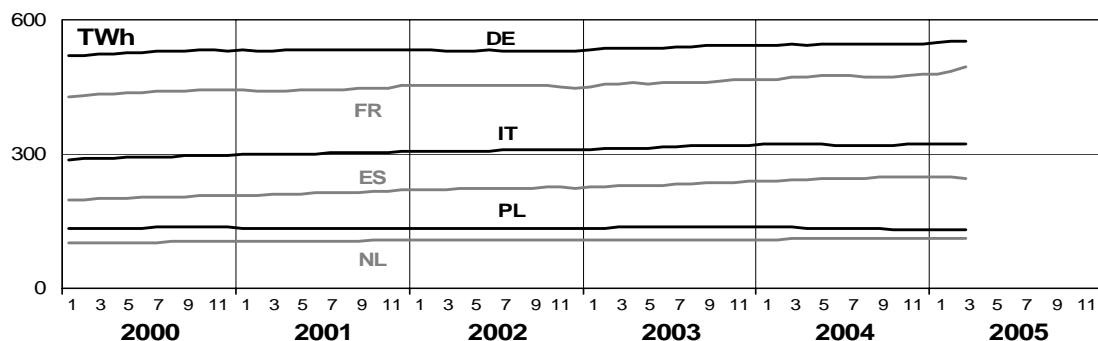
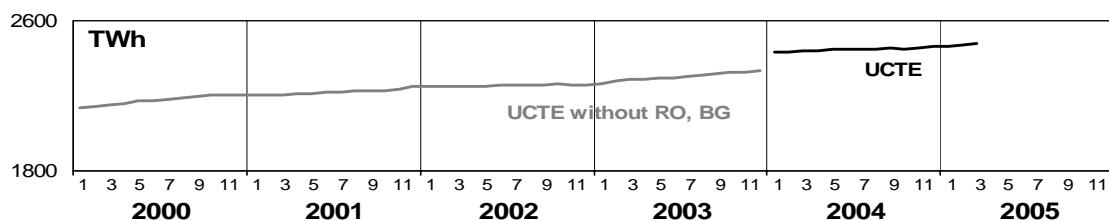
March 2005

All values are calculated to represent 100% of the national values



¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

All values are calculated to represent 100% of the national values



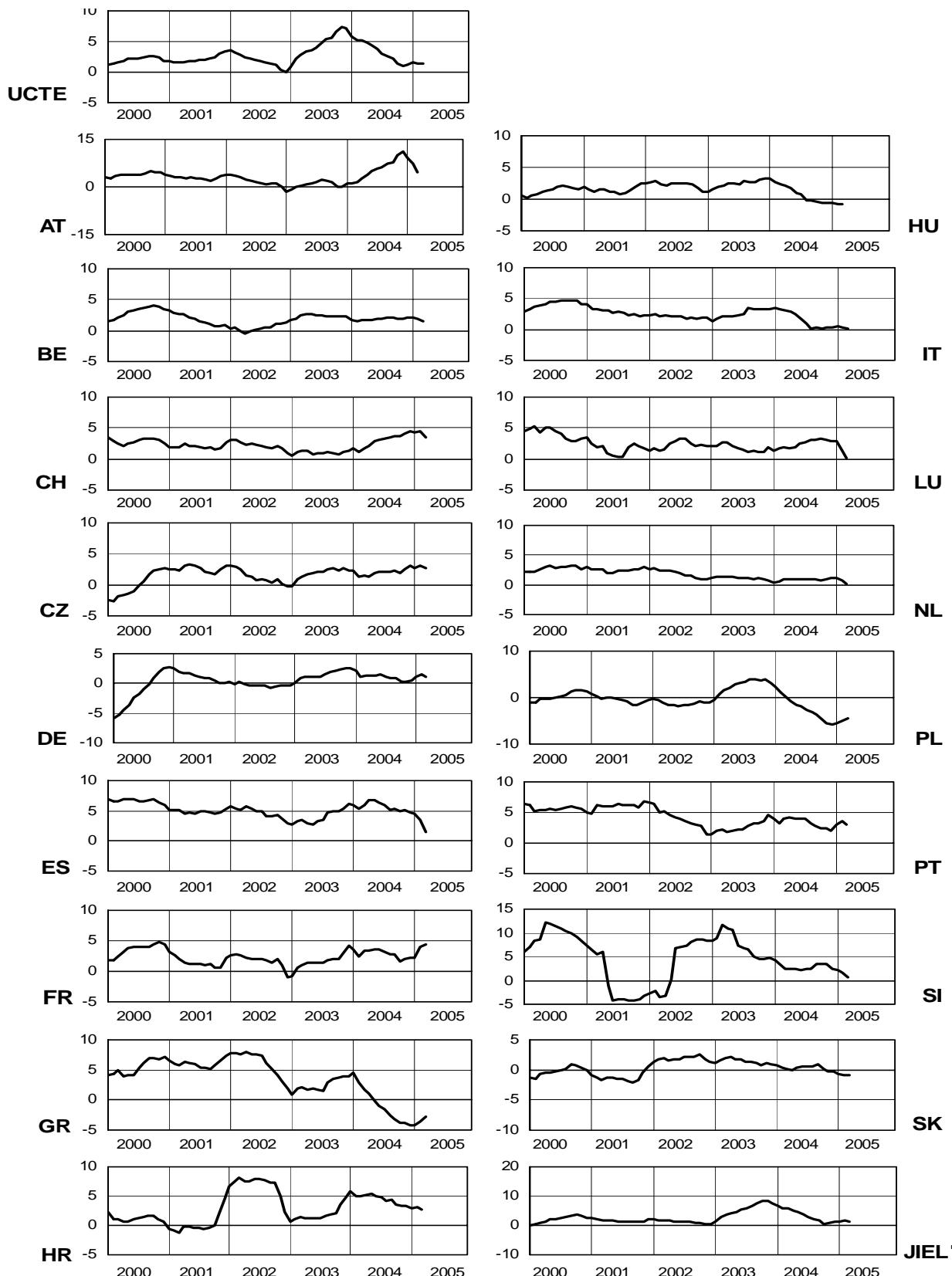
¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

6

Variation of the last 12 months' consumption in %

March 2005

All values are calculated to represent 100% of the national values

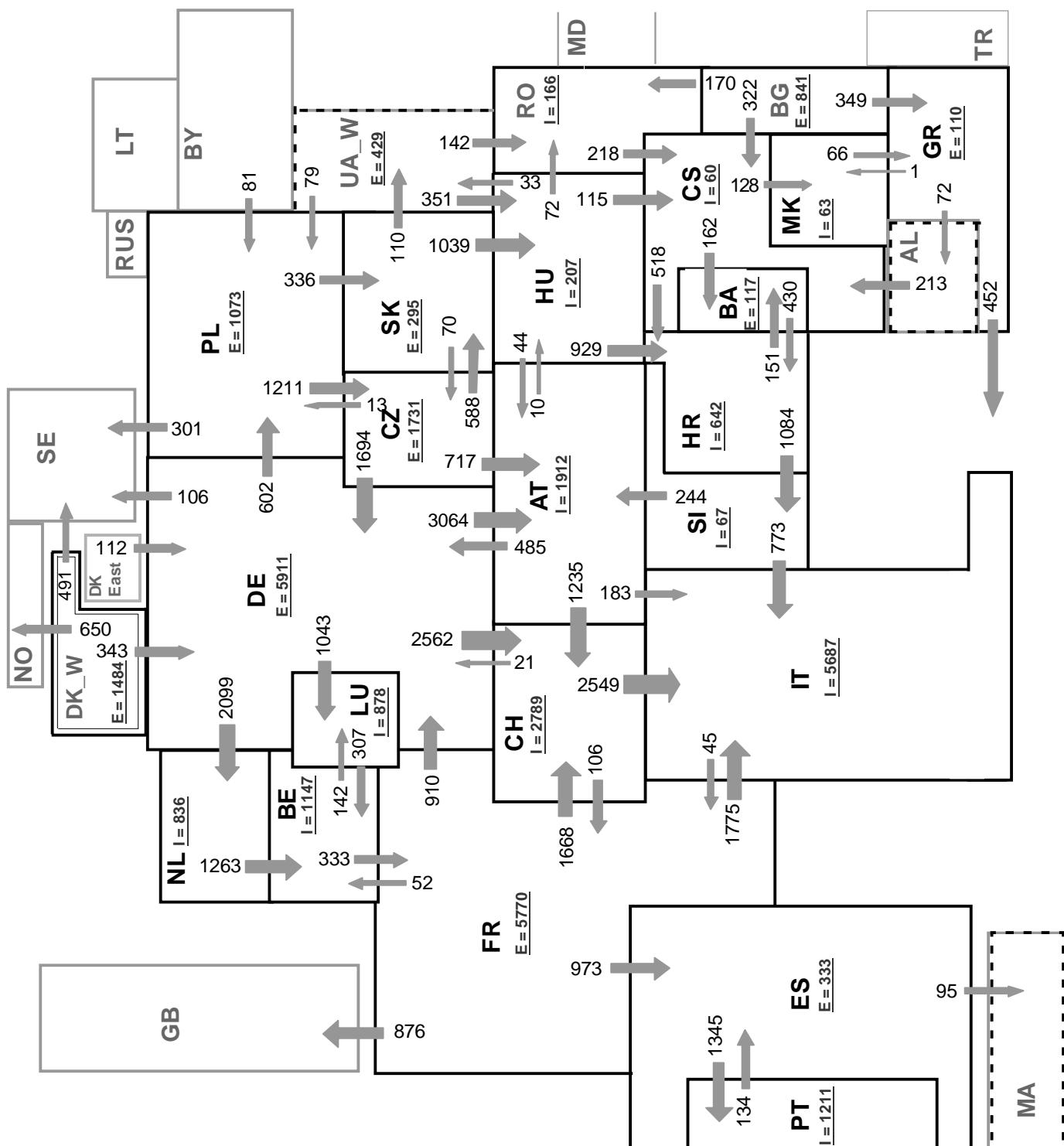


¹ JIEL = FRY + FYROM (Federal Republic of Yugoslavia and former Yugoslav Republic of Macedonia)

7

Load flows (night) on 16.03.05 at 03:00* in MW

March 2005



Associate member

Sum of load flows in MW:

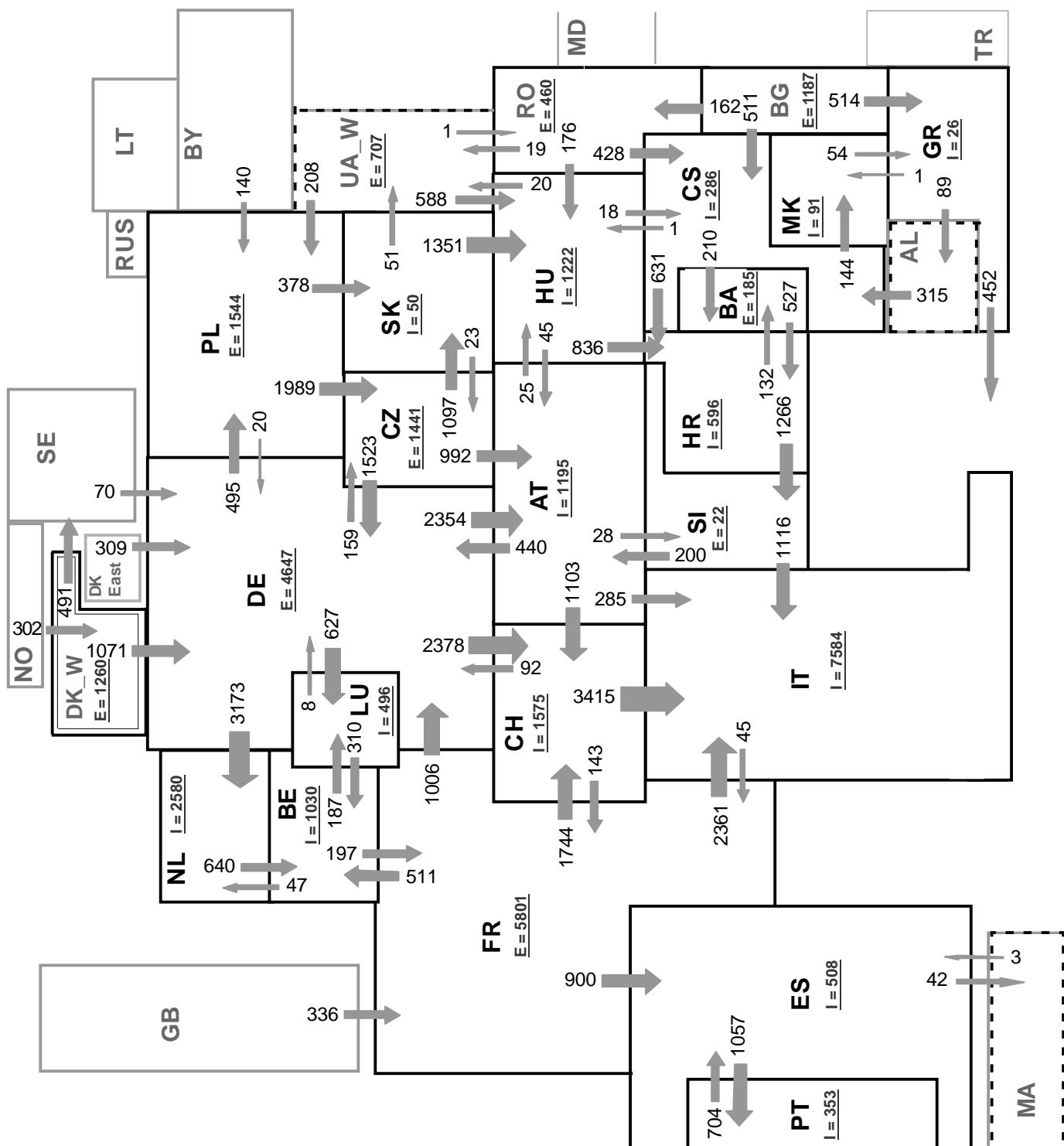
UCTE = 34802 MW Total = 38857MW

Synchronous operation with first region

* Central European Time (CET)

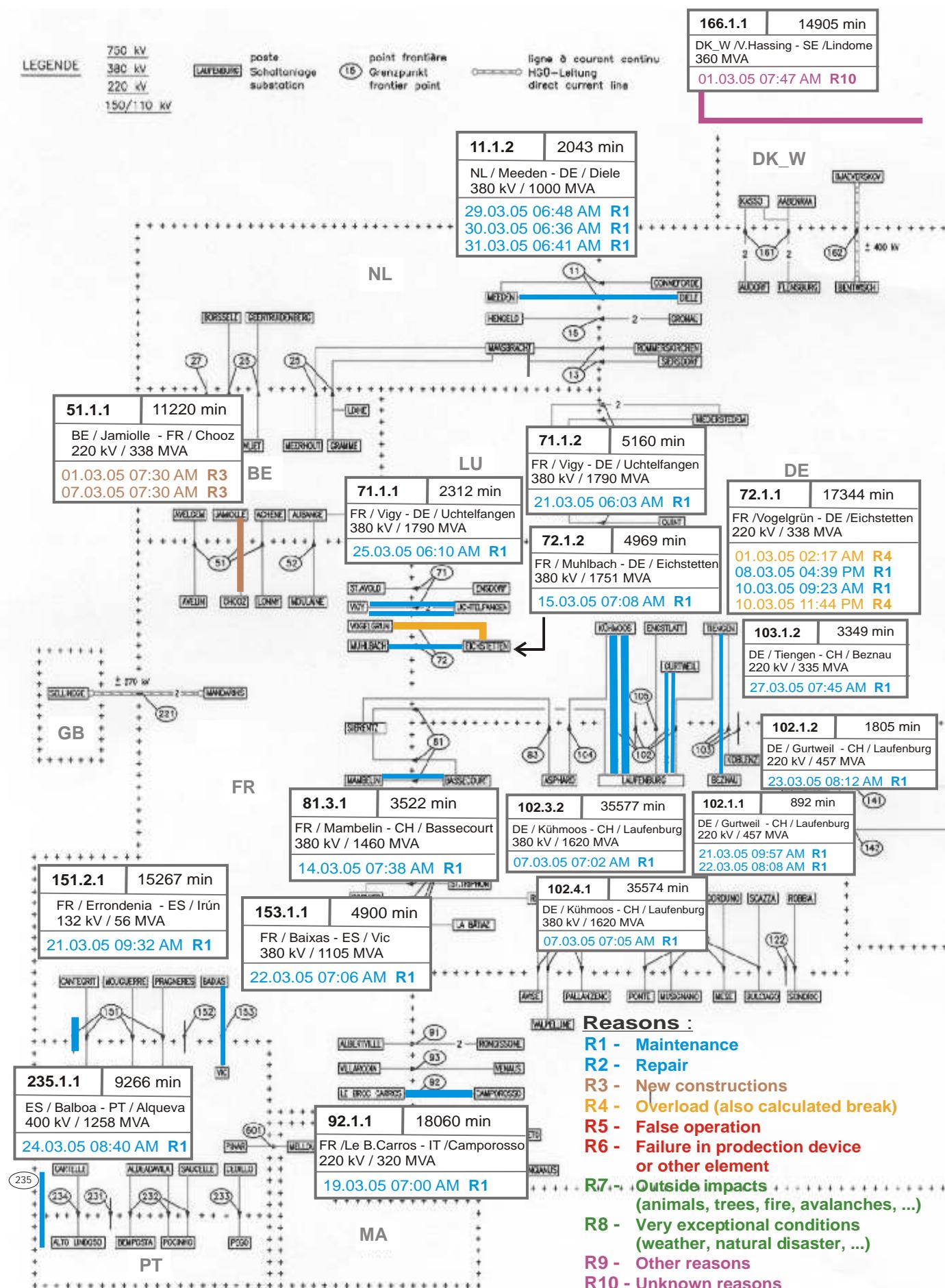
I = Import balance

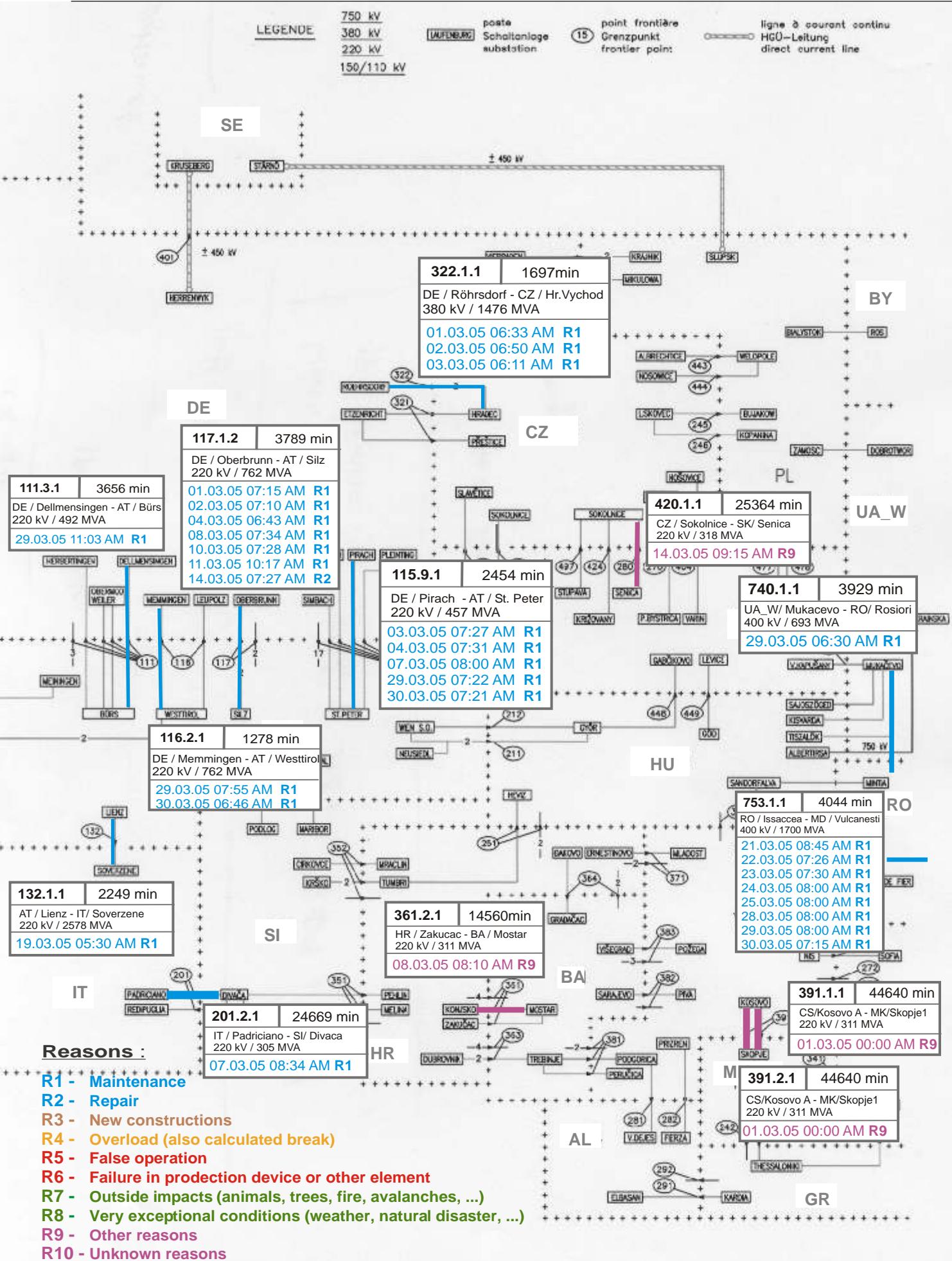
E = Export balance

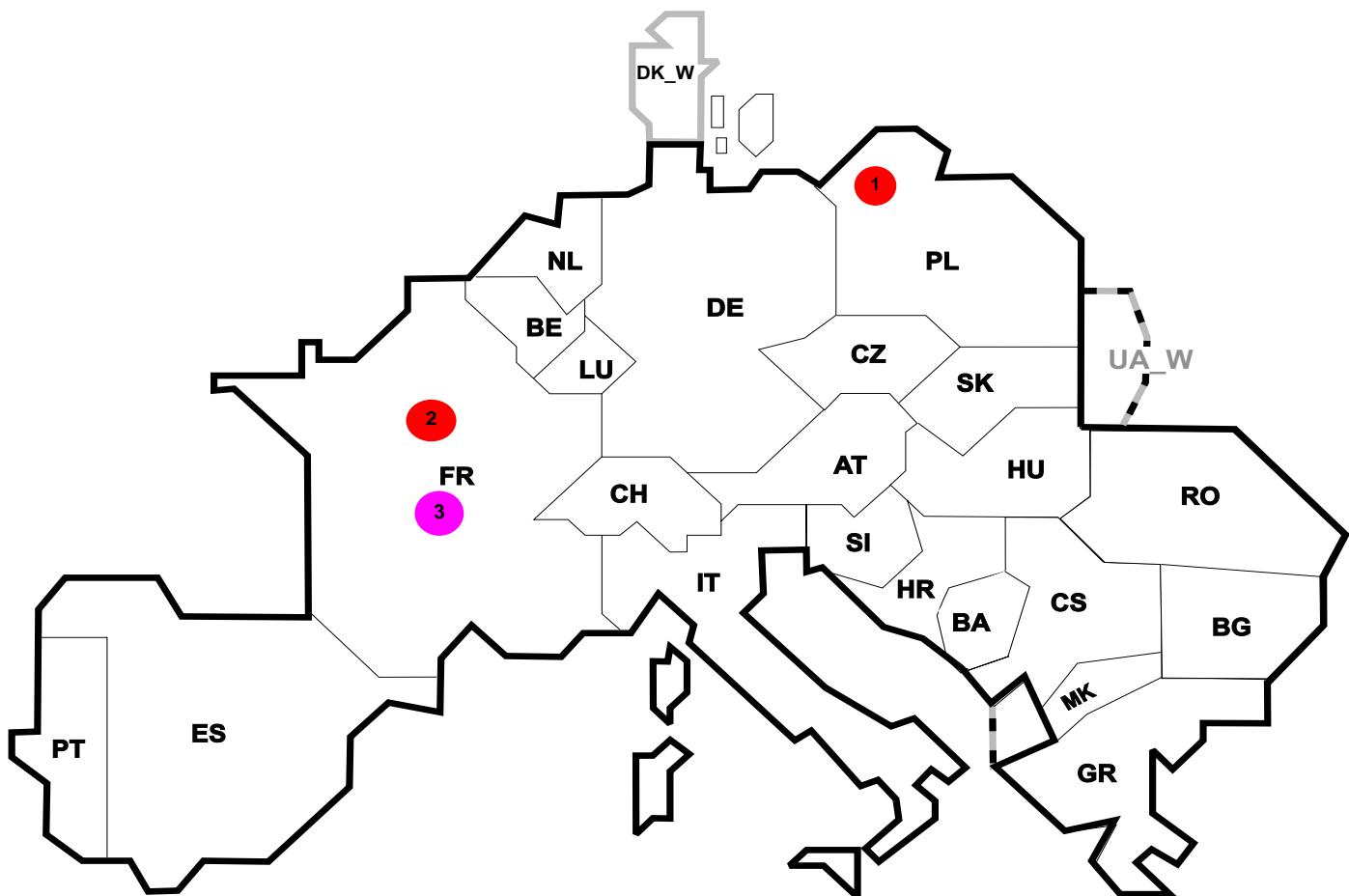


Sum of load flows in MW:

UCTE = 39231 MW Total = 43286 MW







Reasons:

- R4 Overload (also calculated break)
 R5 False operation
 R6 Failure in protection device or other element
 R7 Outside impacts (animals, trees, fire, avalanches, ...)
 (animals, trees, fire, avalanches, ...)

- R8 Very exceptional conditions
 (weather, natural disaster, ...)
 R9 Other reasons
 R10 Unknown reasons

Nbr	Country	Substation	Reason	Energy not supplied [MWh]	Total loss of power [MW]	Restoration time [min]	Equivalent time of interruption ¹
1	PL	Slupsk	R6	81	300	27	0,33
2	FR	Genissiat Poste	R6	16	36	30	0,02
3	FR	Colonie	R9	2	26	4	0,00

¹ (year [in min] * energy not supply) / consumption last 12 months

Control area	Export Programs	Import Programs	Export Programs at 03:00	Import Programs at 03:00	Export Programs at 11:00	Import Programs at 11:00
AT	669039	982655	1618	934	1549	1142
BA	310966	58033	351	0	364	40
BE	425715	1039506	12	951	883	1791
BG	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
CH	2449902	3041708	2173	4930	3854	5411
CS	591550	782421	582	668	907	1199
CZ	1911296	698723	2267	450	2574	1077
DE	5017277	2150256	5897	2023	7182	2521
ES	753210	828185	1384	970	1018	1475
FR	7594072	3911391	9348	3358	10950	5040
GR	310482	352156	500	411	500	543
HR	486806	909620	657	1309	643	1261
HU	541160	1122156	970	1176	571	1799
IT	361711	4897339	45	5732	45	7629
MK	3800	101100	18	96	8	147
NL	413864	1992050	922	1705	382	2968
PL	1269195	146285	1283	235	1850	225
PT	126773	600563	0	1287	576	1000
RO	487026	314107	390	541	875	411
SI	942445	1001316	1226	1289	1415	1344
SK	703806	558682	852	530	1035	1062
DK_W	774499	436622	1472	0	1510	310
UA_W ¹	310197	0	354	0	497	0

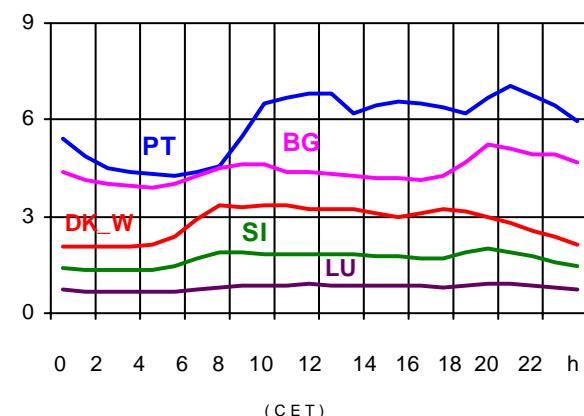
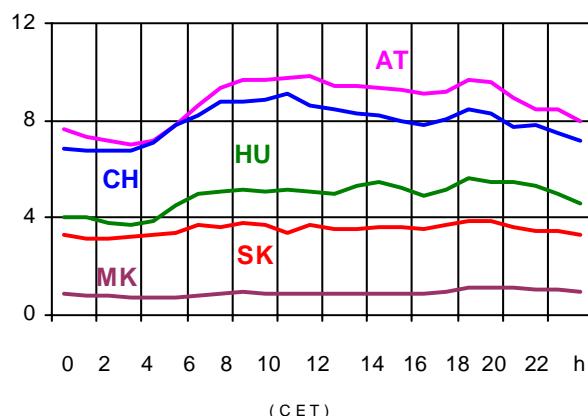
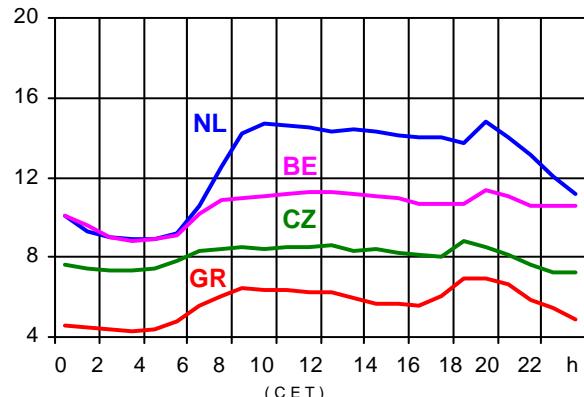
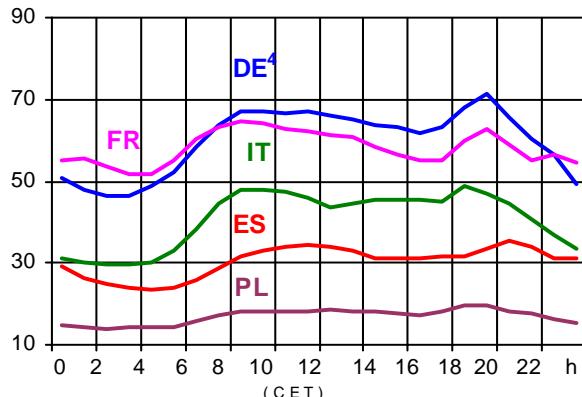
- Control areas can differ from national borders (i.e. German block which includes parts of AT, LU and DK).
- Values are calculated on an hourly base (MWh).
- This values are not the provisional values entered in the VULCANUS system, but the definitive values after an eventual correction during the actual date.
- Export Programs: Sum of all positive values of every hour of every border
- Import Programs: Sum of all negative values of every hour of every border
- Export Programs at 03:00: Sum of all positive values the third Wednesday from 02:00 to 03:00 a.m.
- Import Programs at 03:00: Sum of all negative values the third Wednesday from 02:00 to 03:00 a.m.
- Export Programs at 11:00: Sum of all positive values the third Wednesday from 10:00 to 11:00 a.m.
- Import Programs at 11:00: Sum of all negative values the third Wednesday from 10:00 to 11:00 a.m.

¹ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE

All values are calculated to represent 100% of the national values

Consumption hourly load curves¹ on 16.03.2005

Values in GW



	Peak load MW	var.% ²	Load representativity ¹ %	Parallel power ³ MW
AT	9816	3,9	82	7398
BA	1600	5,6	100	1654
BE	11359	1,1	100	10077
BG	5214	1,5	100	5581
CH	9076	6,0	100	9084
CS	6275	7,9	100	5292
CZ	8814	5,7	100	10545
DE ⁴	71300	-5,8	100	73300
ES	35192	1,3	98	33232
FR	64725	6,1	100	68784
GR	6967	2,2	100	6317
HR	2434	6,4	100	1544
HU	5658	3,8	100	3915
IT	48905	3,7	100	40773
LU	927	4,0	99	964
MK	1148	14,8	100	819
NL	14832	2,9	100	12070
PL	19496	4,4	100	19982
PT	7042	-0,2	97	6152
RO	7384	5,9	100	6583
SI	2011	5,0	95	1764
SK	3900	4,6	100	3595
UCTE	336169	1,4		329425
DK_W	3365	8,8	100	4609
UA_W ⁵	869	-0,9	100	1246

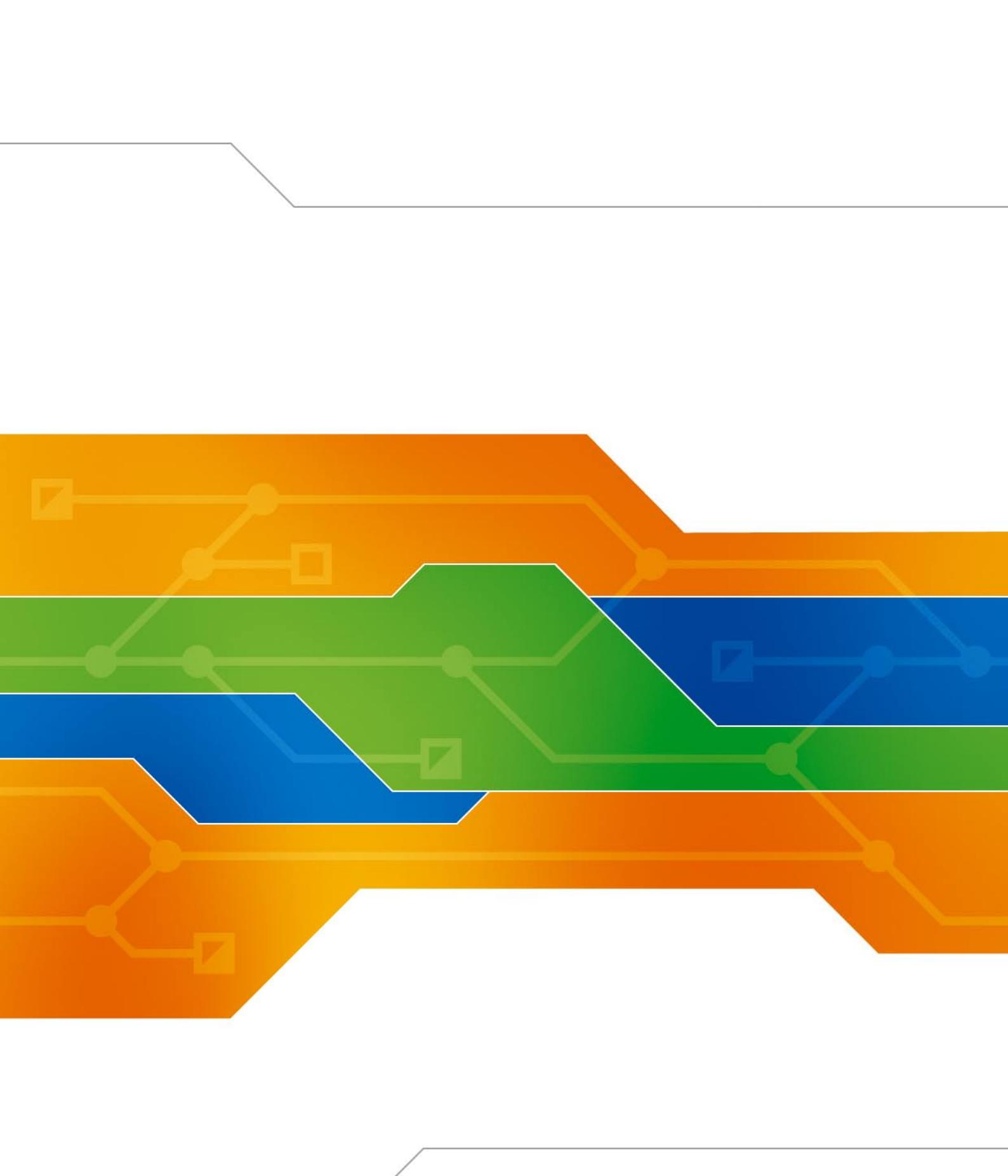
¹ Percentage as referred to total values in %

² Variation as compared to corresponding month of the previous year

³ Power produced in parallel operation (including autoproduction)

⁴ Values estimated on the basis of the vertical load. The vertical load is the total amount of the power flows out of the transmission network into distribution and large consumer networks.

⁵ UA_W represents the so-called Burshtyn Island synchronously interconnected with UCTE



Contact

Boulevard Saint-Michel, 15
B-1040 Brussels – Belgium

Tel +32 2 741 69 40 – Fax +32 2 741 69 49

info@ucte.org
www.ucte.org